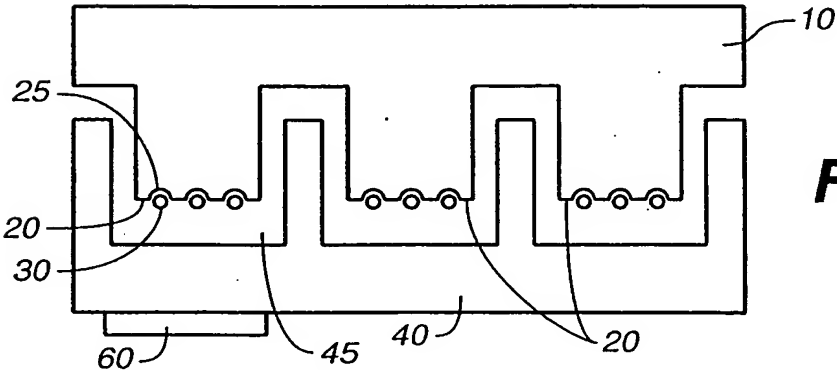




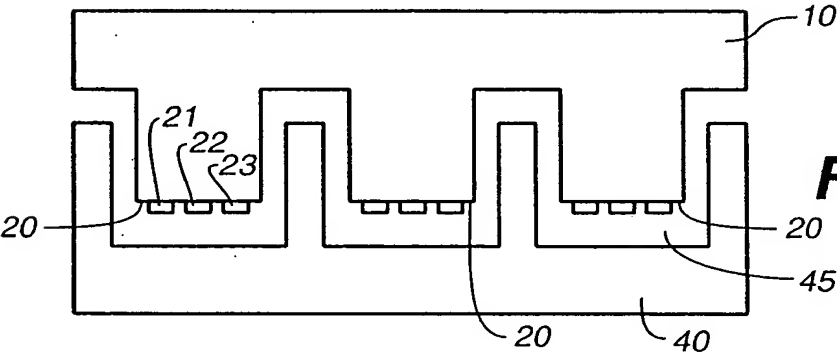
ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
ARRAY OF ARRAYS™

Kain et al

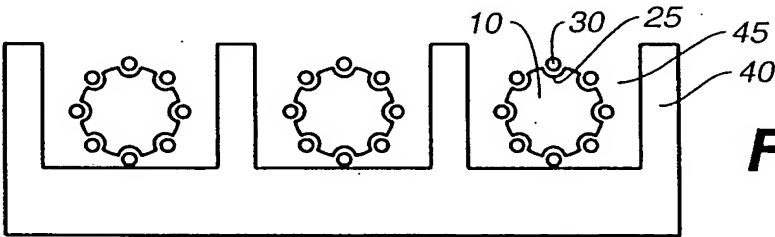
Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1



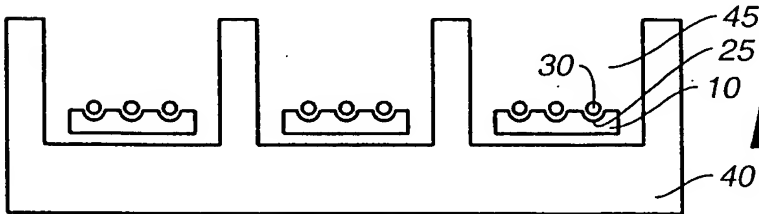
**FIG.\_1A**



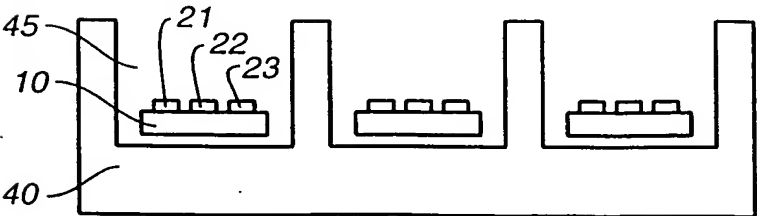
**FIG.\_1B**



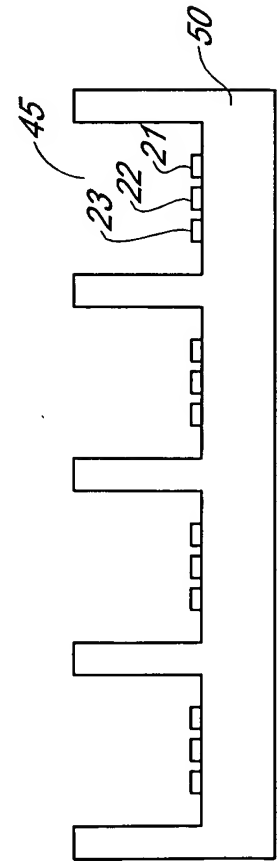
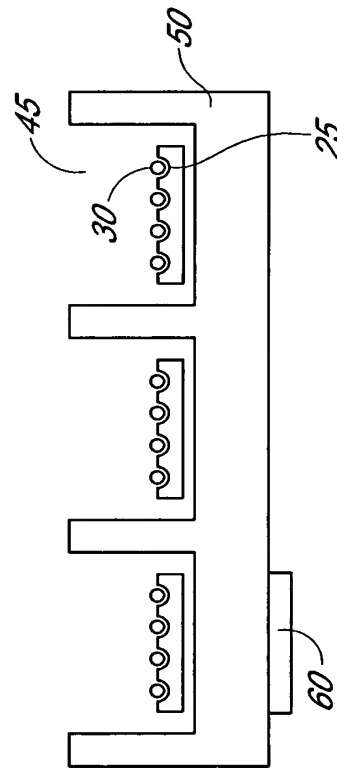
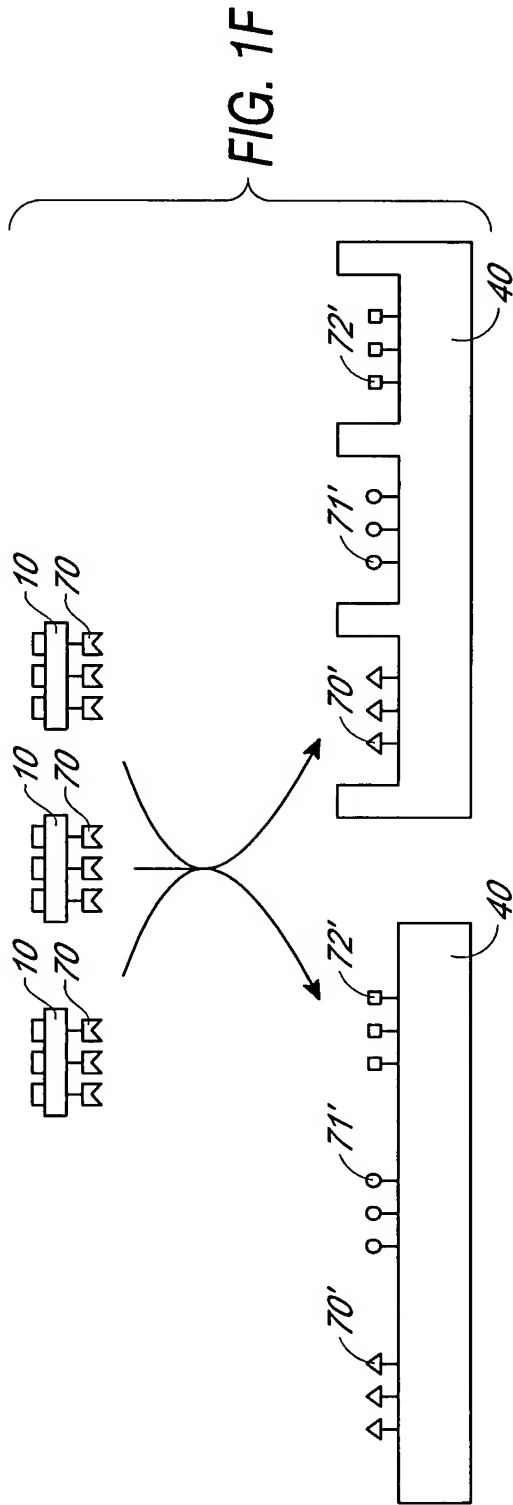
**FIG.\_1C**



**FIG.\_1D**



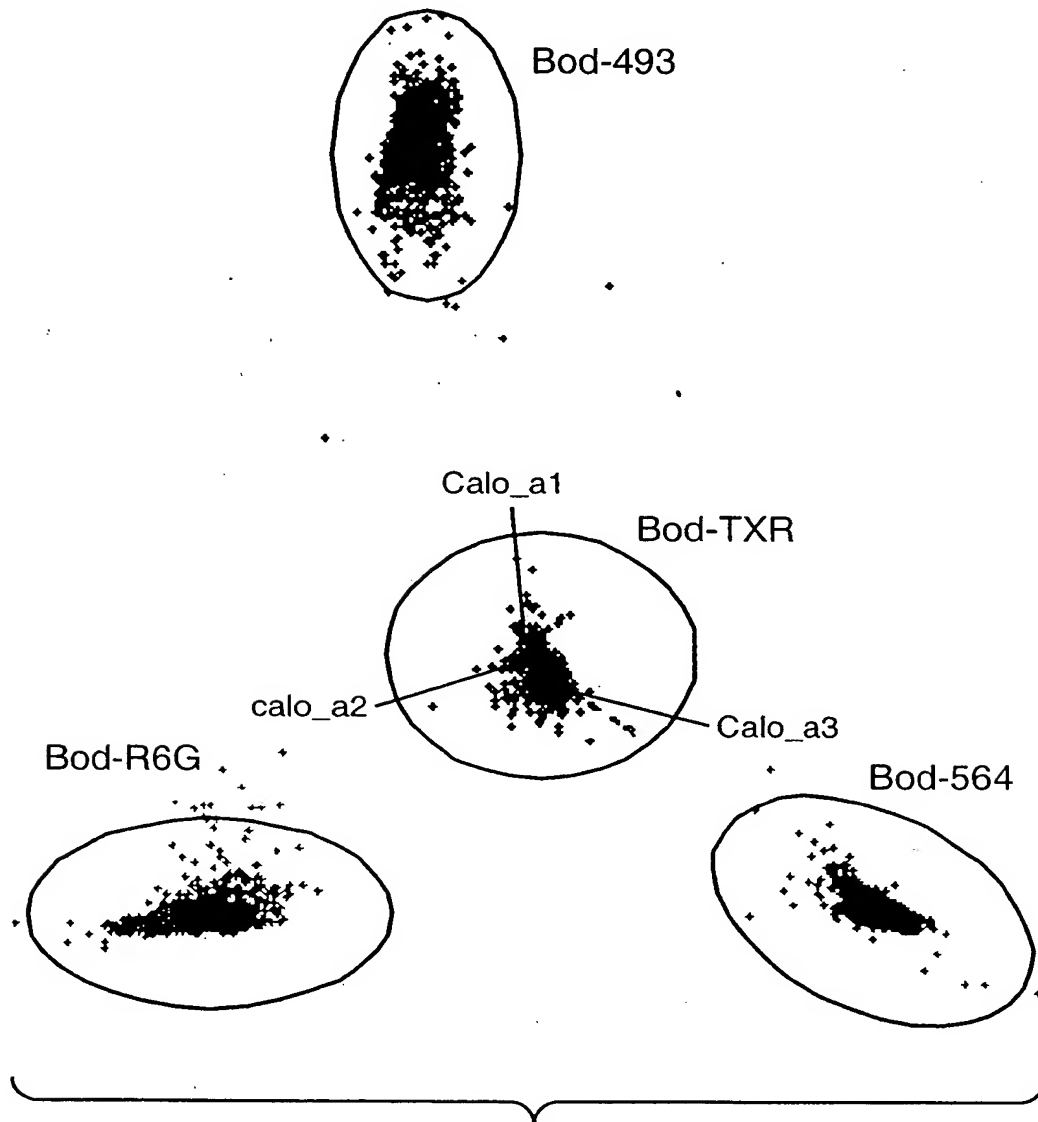
**FIG.\_1E**



ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
ARRAY OF ARRAYS™

Kain et al

Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1



**FIG.\_3**

ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
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Kain et al

Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1

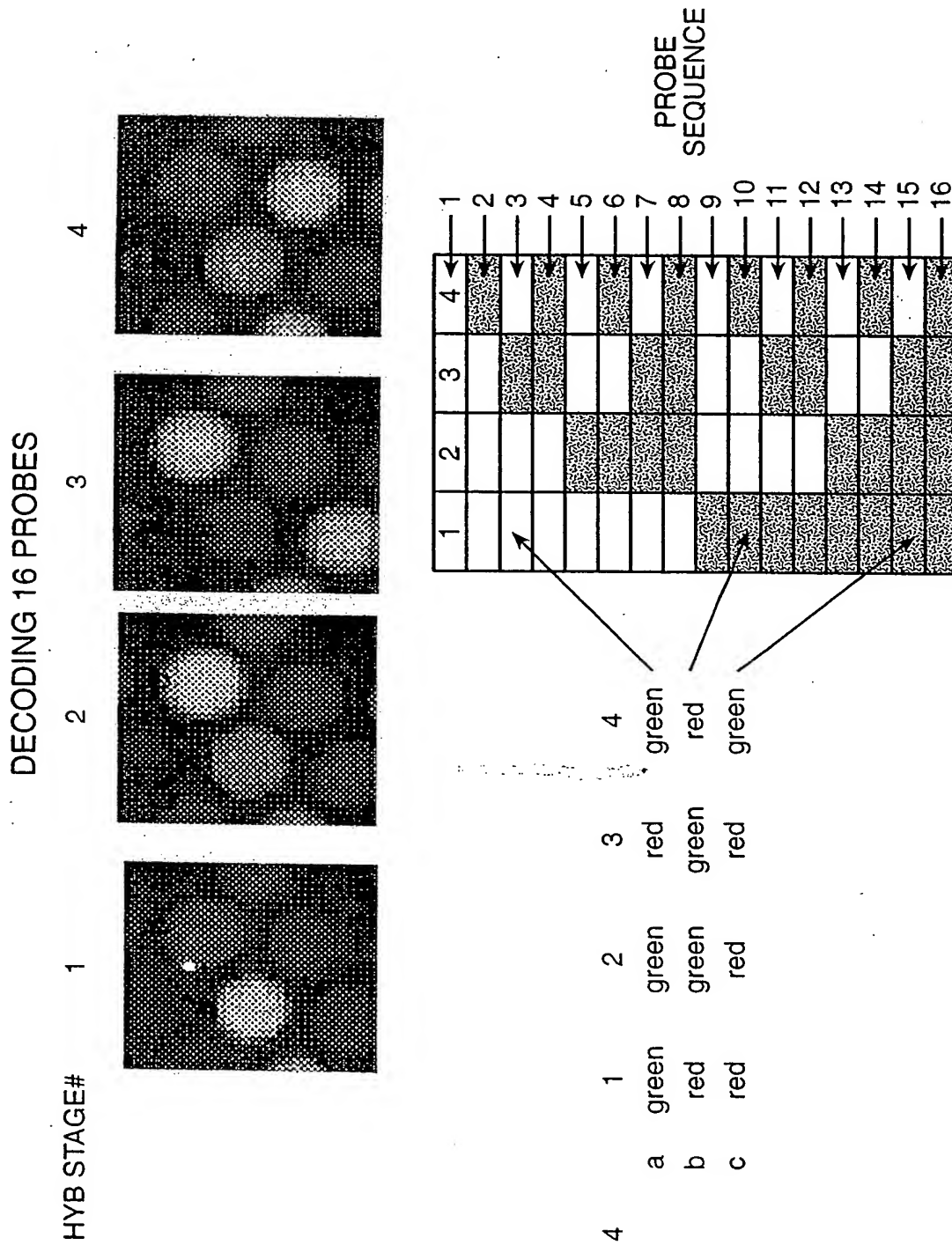
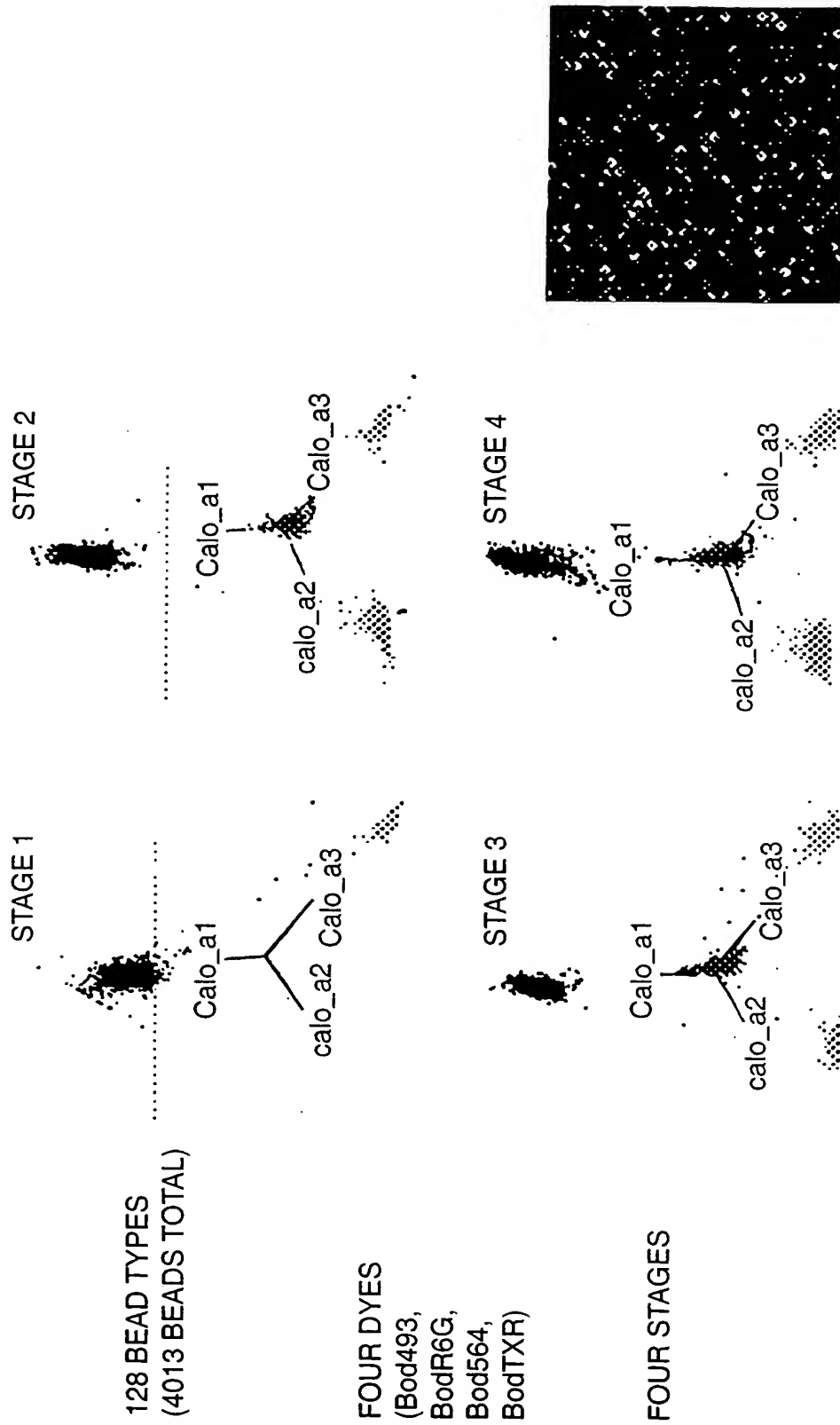


FIG. 4

ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
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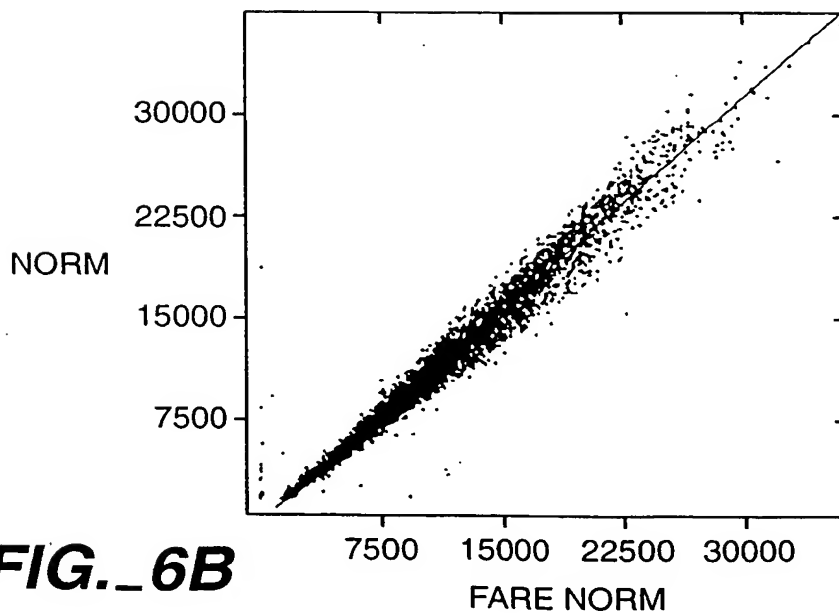
Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1



# GREYSCALE DECODING

| Code | S1  | S2  | S3  |
|------|-----|-----|-----|
| 1    | 100 | 100 | 100 |
| 2    | 100 | 100 | 40  |
| 3    | 100 | 100 | 10  |
| 4    | 100 | 40  | 100 |
| 5    | 100 | 40  | 40  |
| 6    | 100 | 40  | 10  |
| 7    | 100 | 10  | 100 |
| 8    | 100 | 10  | 40  |
| 9    | 100 | 10  | 10  |
| 10   | 40  | 100 | 100 |
| 11   | 40  | 100 | 40  |
| 12   | 40  | 100 | 10  |
| 13   | 40  | 40  | 100 |
| 14   | 40  | 40  | 40  |
| 15   | 40  | 40  | 10  |
| 16   | 40  | 10  | 100 |
| 17   | 40  | 10  | 40  |
| 18   | 40  | 10  | 10  |
| 19   | 10  | 100 | 100 |
| 20   | 10  | 100 | 40  |
| 21   | 10  | 100 | 10  |
| 22   | 10  | 40  | 100 |
| 23   | 10  | 40  | 40  |
| 24   | 10  | 40  | 10  |
| 25   | 10  | 10  | 100 |
| 26   | 10  | 10  | 40  |
| 27   | 10  | 10  | 10  |

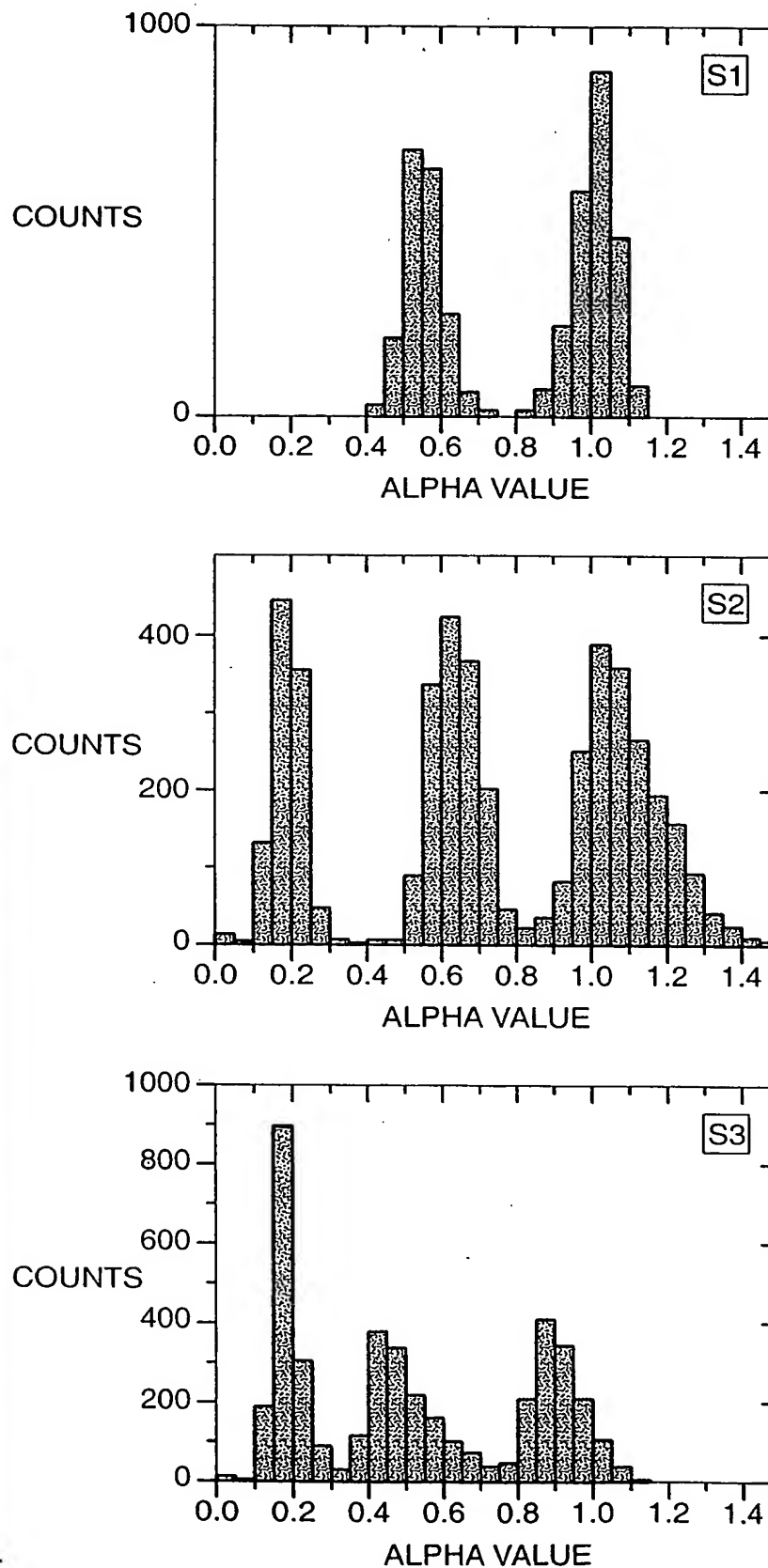
**FIG.\_6A**



**FIG.\_6B**

FIG. 6C

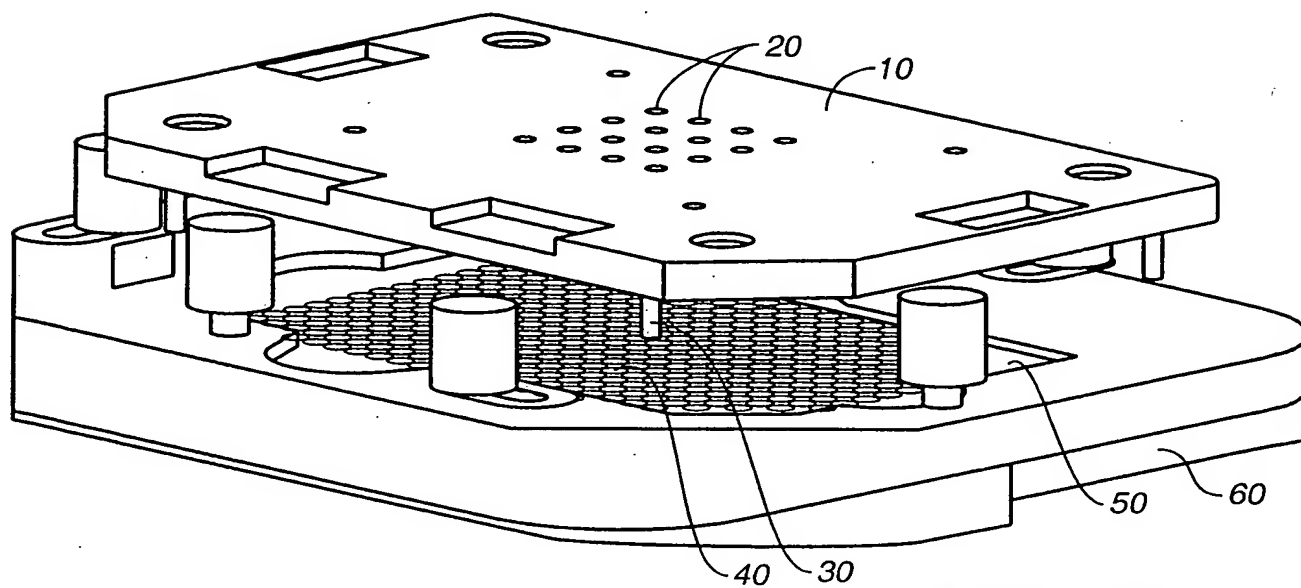
GREYSCALE DECODING



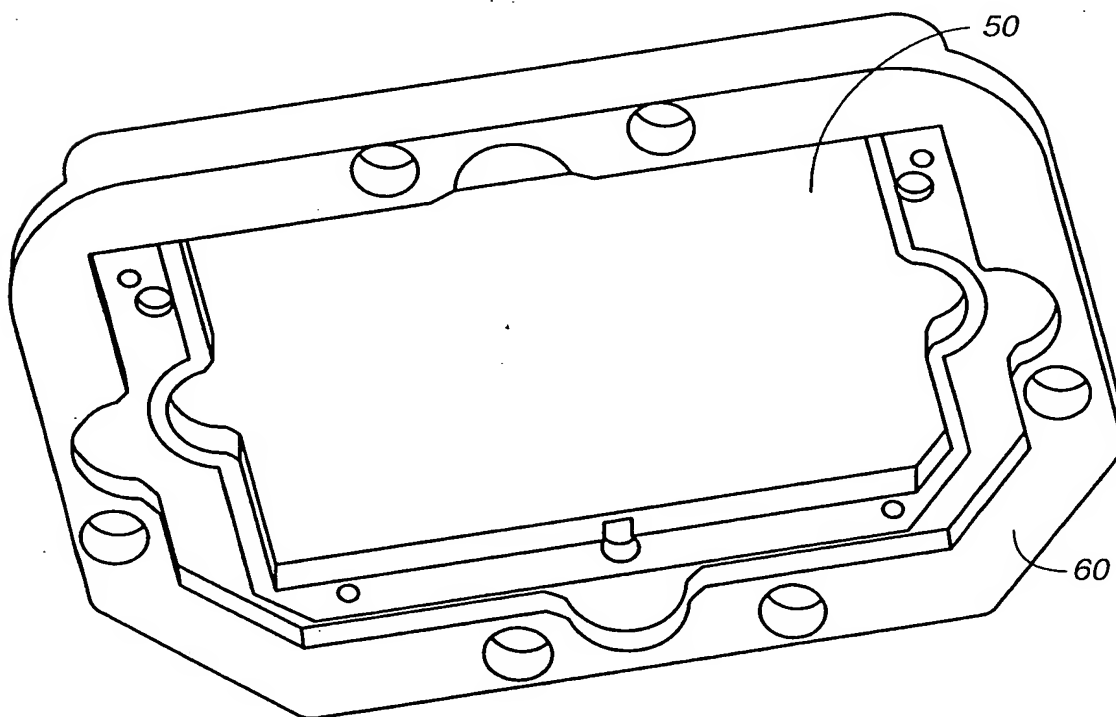
ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
ARRAY OF ARRAYS™

Kain et al

Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1



**FIG.\_7A**



**FIG.\_7B**



ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
ARRAY OF ARRAYS™

Kain et al

Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1

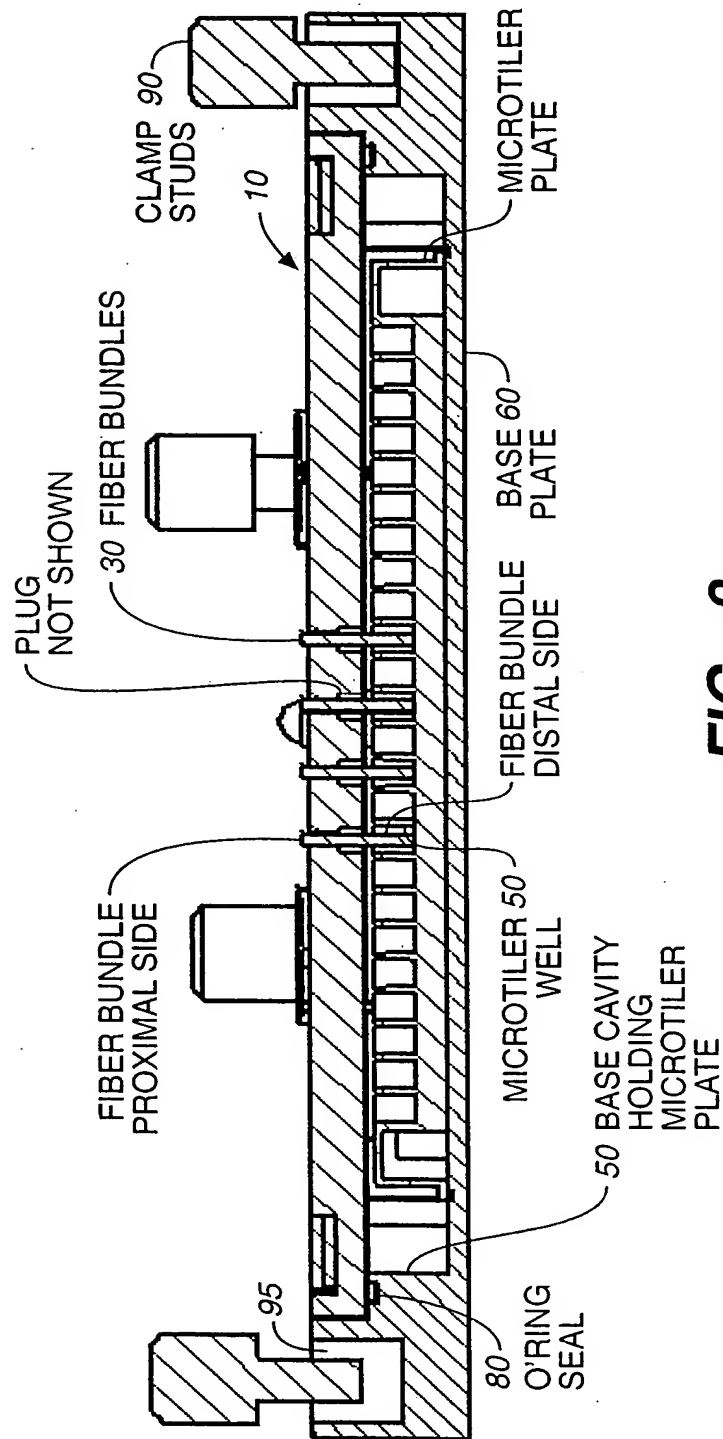
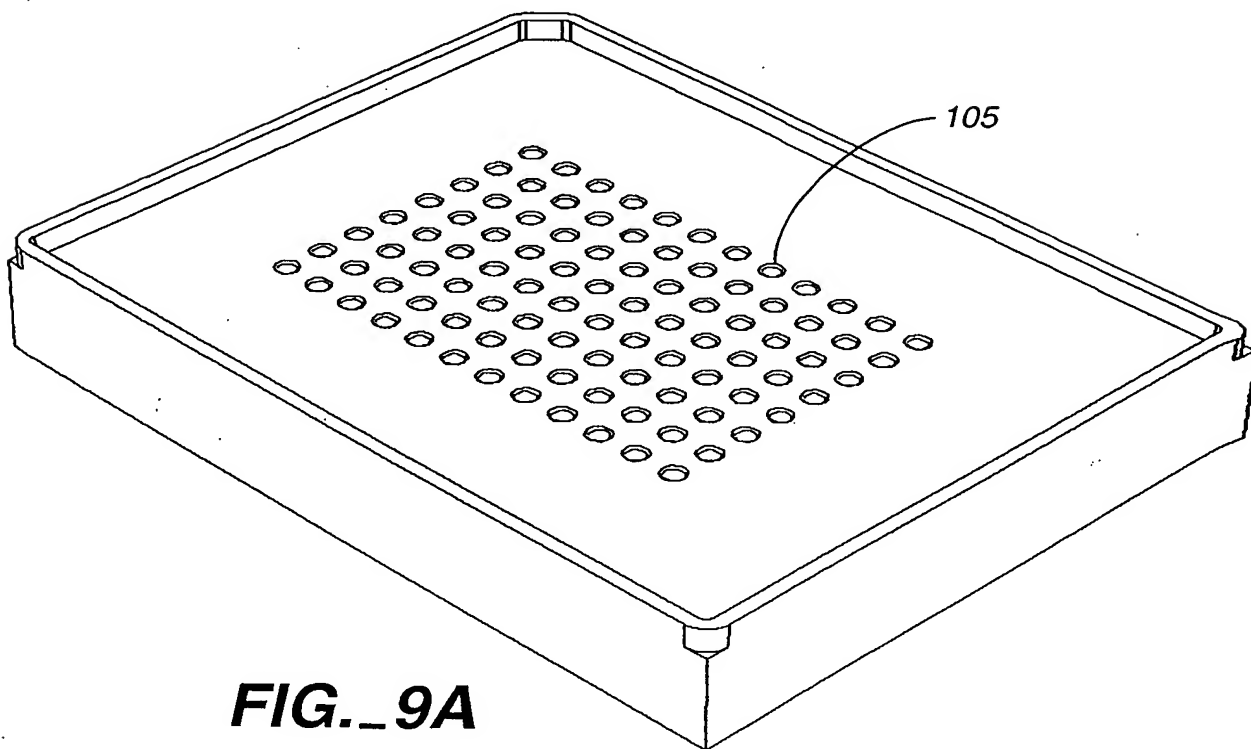


FIG.-8

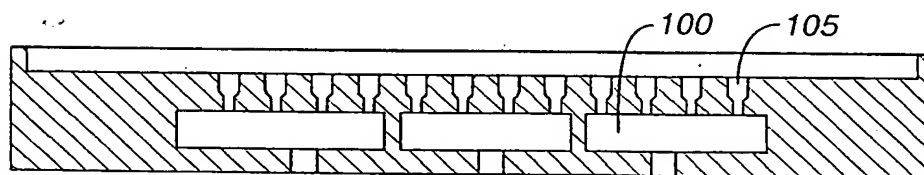
ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
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Kain et al

Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1



**FIG. 9A**

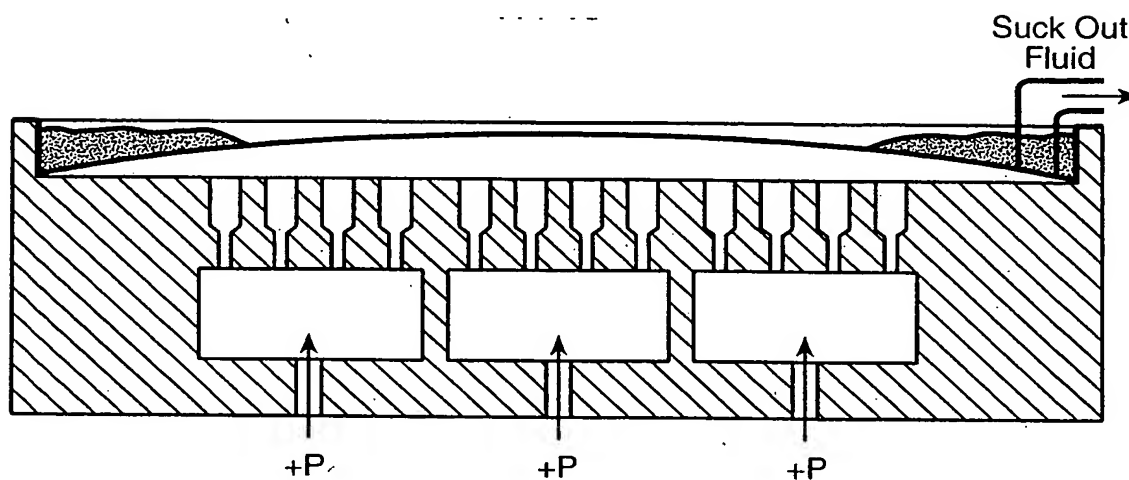


**FIG. 9B**

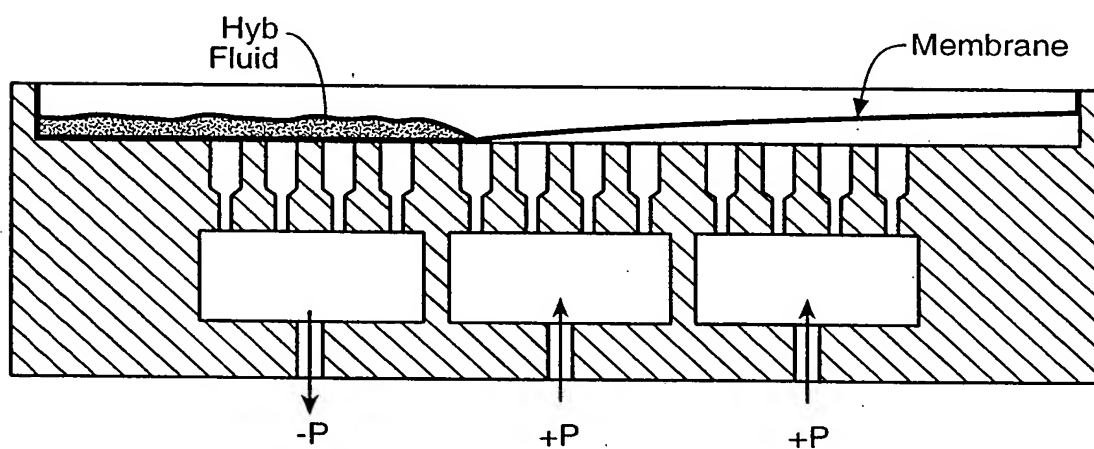
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Kain et al

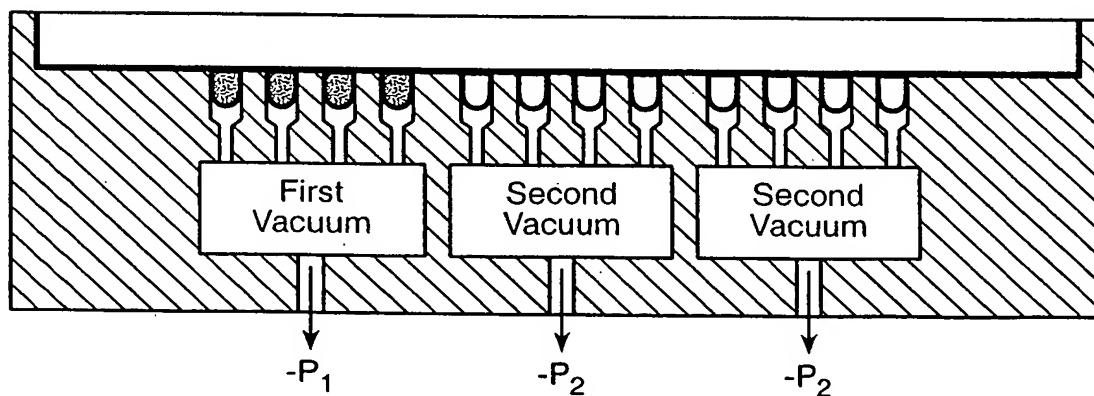
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**FIG.\_10A**



**FIG.\_10B**

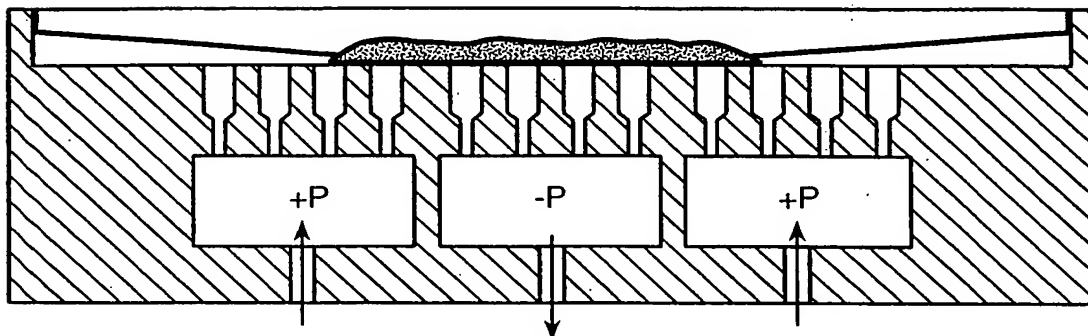


**FIG.\_10C**

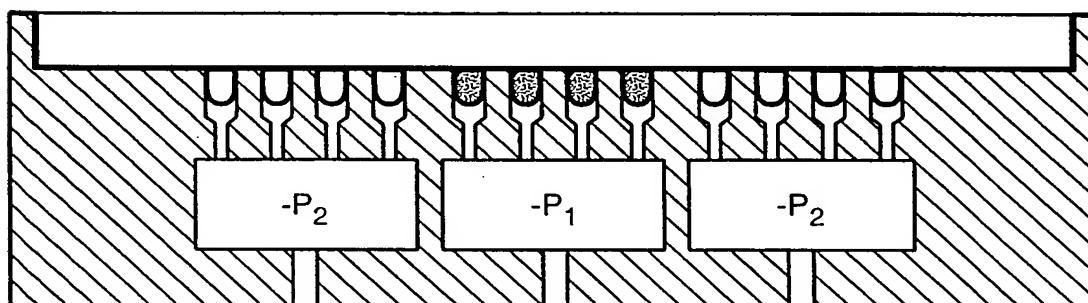
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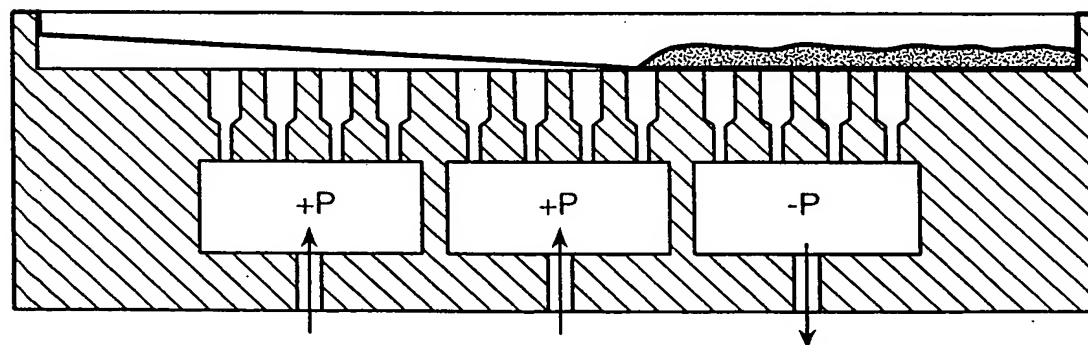
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**FIG.\_10D**

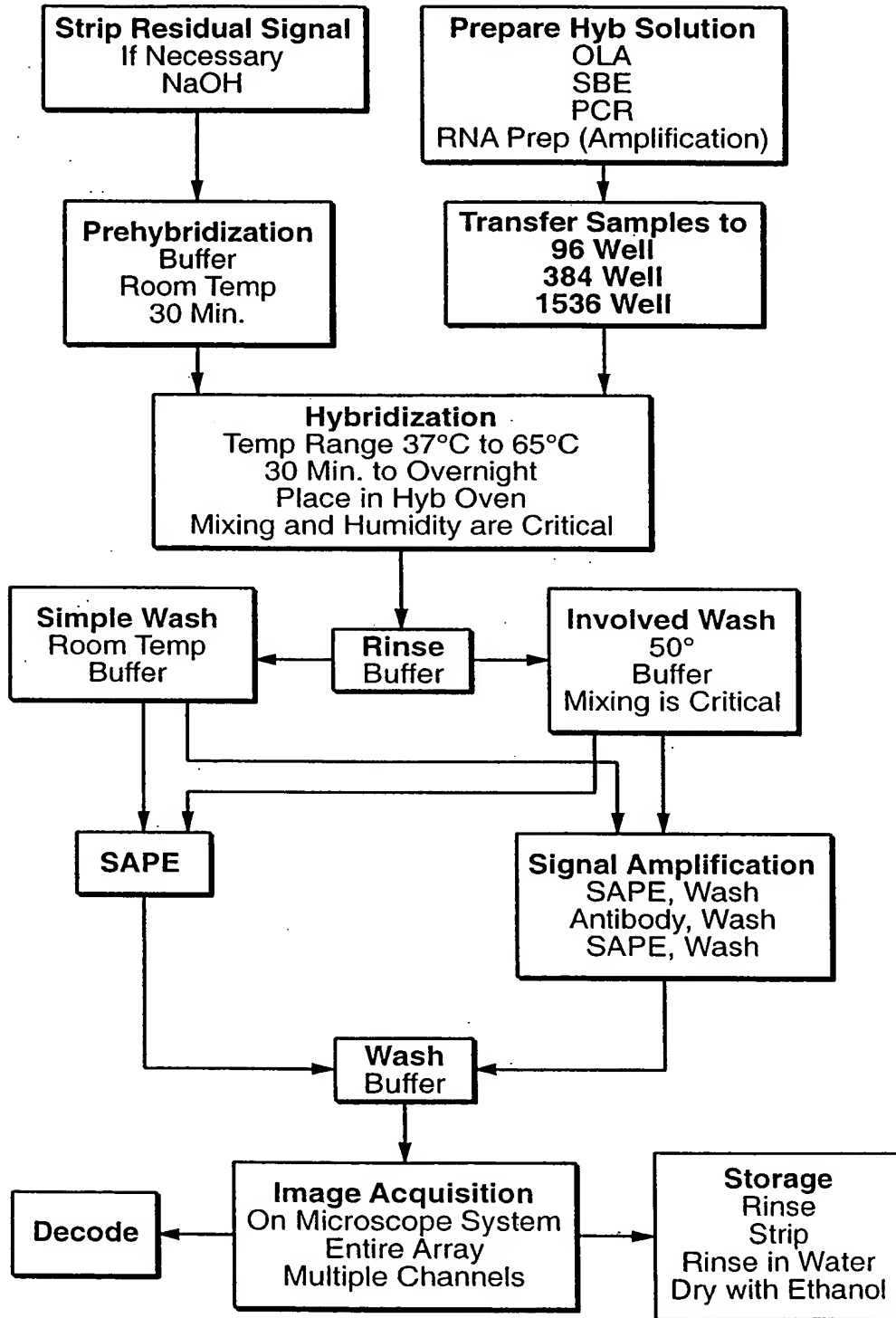


**FIG.\_10E**



**FIG.\_10F**

## ANALYTICAL HYBRIDIZATION

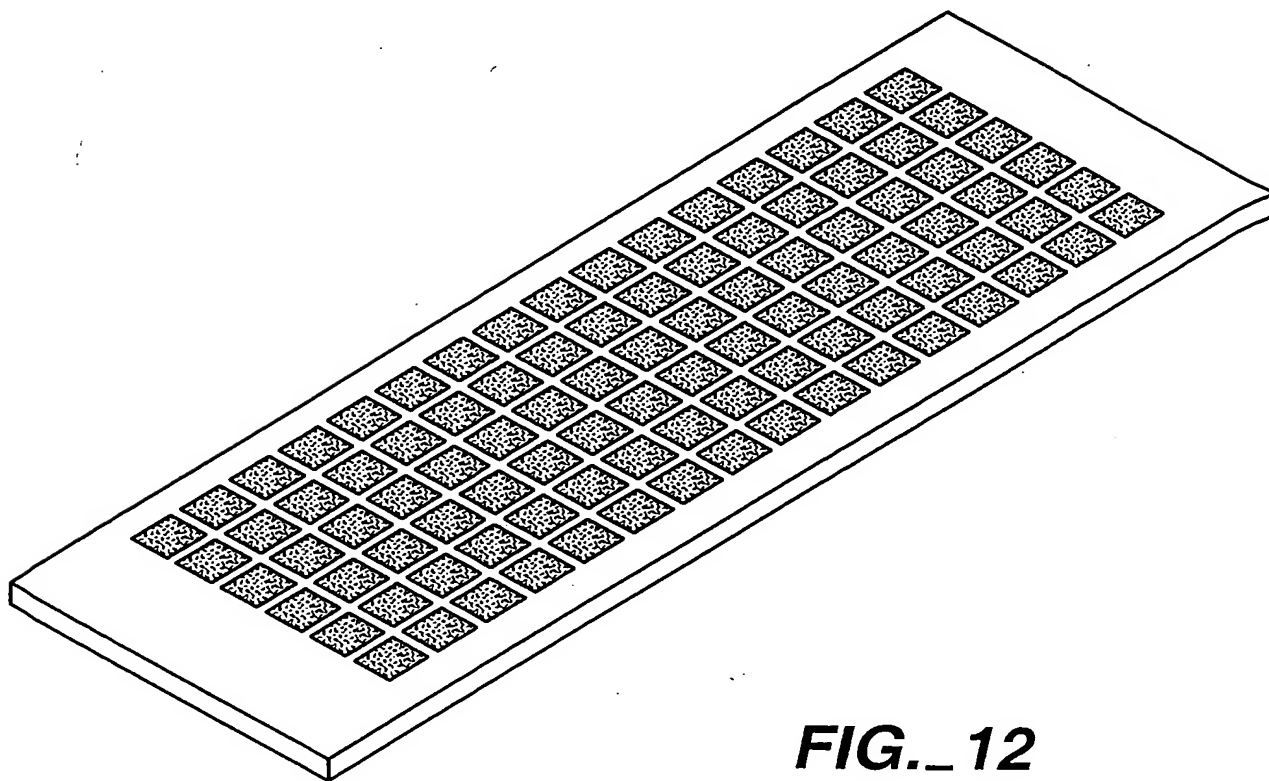


**FIG. 11**

ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
ARRAY OF ARRAYS™

Kain et al

Appl. No.: 10/638,173 Atty Docket: ILLINC.026C1



**FIG. 12**

ALTERNATIVE SUBSTRATES AND FORMATS FOR BEAD-BASED  
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Kain et al

Appl. No.: 10/638,173 Atty Docket: ILL/NC.026C1

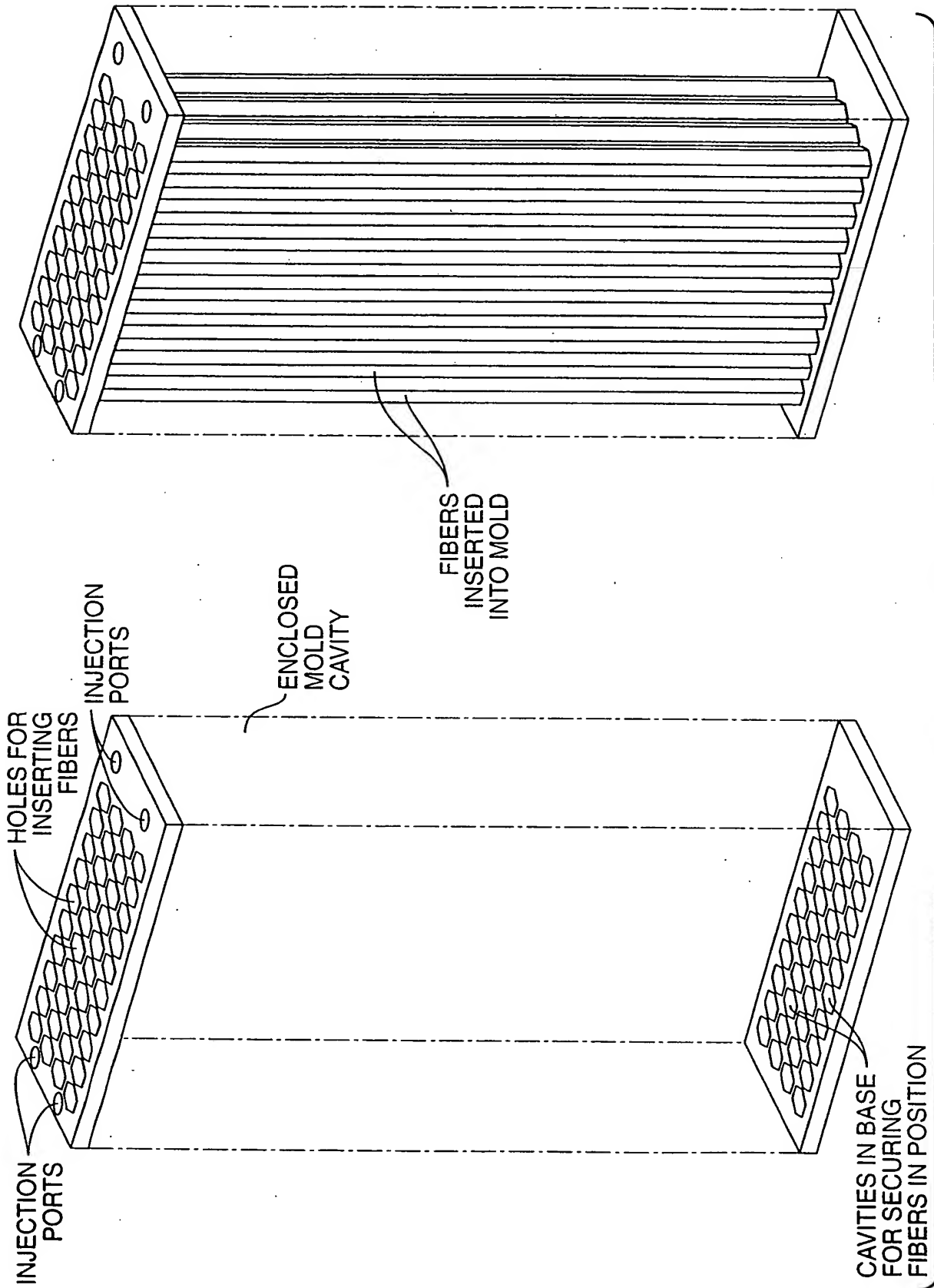


FIG. 13